

A NOVEL CHEMICAL BASE FOR FUEL CELL ENGINE
HEAT EXCHANGE COOLANT/ANTIFREEZE

5 Abstract of the Invention

A nontoxic fuel cell engine coolant which has an electrical resistivity of greater than 250 kOhm-cm, a boiling point of greater than 90°C, a freezing point of less than -40°C, a thermal conductivity of greater than 10 0.4 W/m-k, a viscosity of less than 1 cPs at 80°C, a viscosity of less than 6 cPs at 0°C, a heat capacity of greater than 3 kJ/kg-K, and which is compatible with current cooling system materials.